

**Review Form 3**

Journal Name:	<b>Advances in Research</b>
Manuscript Number:	<b>Ms_AIR_121885</b>
Title of the Manuscript:	<b>Study of Plant Growth Promoting abilities of Rhizobium Strains isolated from mungbean root nodules.</b>
Type of the Article	<b>Research</b>

### Review Form 3

#### **PART 1: Review Comments**

<b>Compulsory</b> REVISION comments	<b>Reviewer's comment</b>	<b>Author's Feedback</b> (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p><b>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</b></p>	<p>This research manuscript has major significance in modern day's agricultural research as it deals the most threatening issue of diminishing soil fertility status due to excessive use of synthetic fertilizers and conventional approaches those disturbs natural ecosystems and soil physical and chemical properties, which sufficiently affect global agricultural production systems. So it briefly studies the mechanism of soil microbes inside the root nodules of a leguminous crop which helps in restoring soil fertility through nitrogen fixation that improves plant productivity while minimizing the use of inorganic fertilizers.</p>	
<p><b>Is the title of the article suitable? (If not please suggest an alternative title)</b></p>	<p>Yes, title is fine.</p>	
<p><b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b></p>	<p>The "Background" history of the abstract missing the beneficial impacts of PGPR on plants and the type of hormones they produce that is highlighted in the comment section added in the article. It is highly recommended to add it, all other parts of abstract sections are fine.</p>	
<p><b>Are subsections and structure of the manuscript appropriate?</b></p>	<p>Subsections and structure of this manuscript both appropriate. But some additions are needed before accepting this manuscript for publication.</p> <p>In "Introduction" section of this manuscript, give a short description on significance of IAA, Phosphate solubilisation &amp; Siderophore production for plants.</p> <p>In Materials &amp; Methods section, the brief details of Rhizobium stains used in this experiment is missing. Give brief details of all the Rhizobium strains used in this experiment as treatment.</p>	
<p><b>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</b></p>	<p>It briefly studies the processes involved in the activity of Plant Growth Promoting Rhizobacteria (PGPR) that act in plant root nodules and improve diminishing soil fertility status. The study of IAA, Phosphate Solubilizing test and Siderophore Production has ultimate significance in this work and basic theme of the study.</p>	
<p><b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b></p>	<p>It's not about the quantity of References in a research work as far it is a quality work with the addition of latest references. So number of references is fine. But it is suggested to replace old references with latest ones.</p>	

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Minor REVISION comments <b>Is the language/English quality of the article suitable for scholarly communications?</b>	<p>The quality of this article is fine. The results of previously conducted research work are written in Past tense. There are some mistakes where all the obtained results in this manuscript are given in Present tense, and it is highlighted for correction and make sure to write all the outcomes in Past tense.</p> <p>There are some other mistakes of prepositions in this manuscript which are either highlighted in Red fonts or recommended in comments for correction.</p>	
Optional/General comments	<p>This manuscript deals the most significant topic in the study of Agricultural Sciences to promote sustainable agricultural practices with conservation approaches.</p> <p>The quality of this research work is fine and is recommended to be published with major revisions as suggested in comments section.</p>	

### **PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

### Reviewer Details:

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